Joint Computer-aided Acquisition and Logistic Support (JCALS) System

Shawn Magill

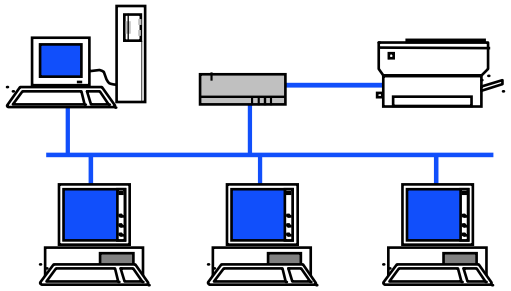
Navy JCALS Projects Coordinator

NAVSUP Enterprise Integration Office

(717) 605-6886 DSN 430

JCALS Program is Two Things

- **Logistics Infrastructure -**
  - Approved for Deployment in May 1995
  - Contributor to the Defense Information Infrastructure (DII) Common Operating Environment (COE)
  - Global network of application servers and tools connecting work processes, people and data



- **Technical Manual Application -**
  - Create, Manage, Improve, Publish, Stock and Distribute DoD TMs and like documents
  - ADM to deploy to Army, Navy and USMC (USAF decision in Dec 98)
  - “Final Milestone III” for “SWP 3” in early FY2000 (enhancements/new tools in FY99)

Scope

Core Capability of the JCALS AIS

Core Tools

- **Global Data Management System**
  - ***Immediate access to geographically distributed technical and program data***
- **Workflow Manager**
  - ***Enterprise-wide; peer to peer connection***
  - ***User-developed/ managed***
- **DoD Enterprise Security Solution**
  - ***Controlled access to sensitive***

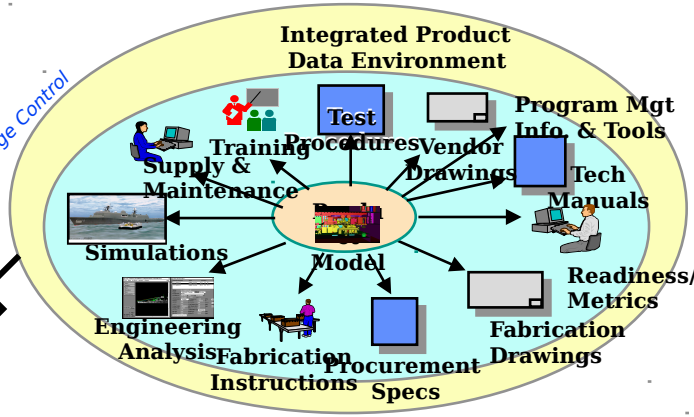
Navy Applications

- Regional Maintenance (Job Planning and Work Assignment, Tech Data Access, FISC/SY interface)
- Supply Management (Asset Visibility/Use, Engr Referral; Elec Contract Folder tool and SPS interface available)
- Acquisition Programs (Tech Data Access/Mgmt, ECP Processing)
- Training Community (Training Materials/Curriculum Development)

The primary tool for single log-in access to JEDMICS stored technical data

OSD Long Term Strategy

Integrated Data Environment



Logistics
- Technical Pubs
- Training
- Provisioning

Contracting
- Contract Mgt
- Legal

Engineering
- System Analysis
- Specs
- Manufacturing

Test & Evaluation
- Planning
- Assessments

Configuration Mgt
- Planning
- Audits
- Change Control

PEO/PM

Interoperable Infrastructure

1 2 n

Data Bases

- Logistics
- Acquisition
- Engineering
- Mega Centers
- Depot
- CITIS

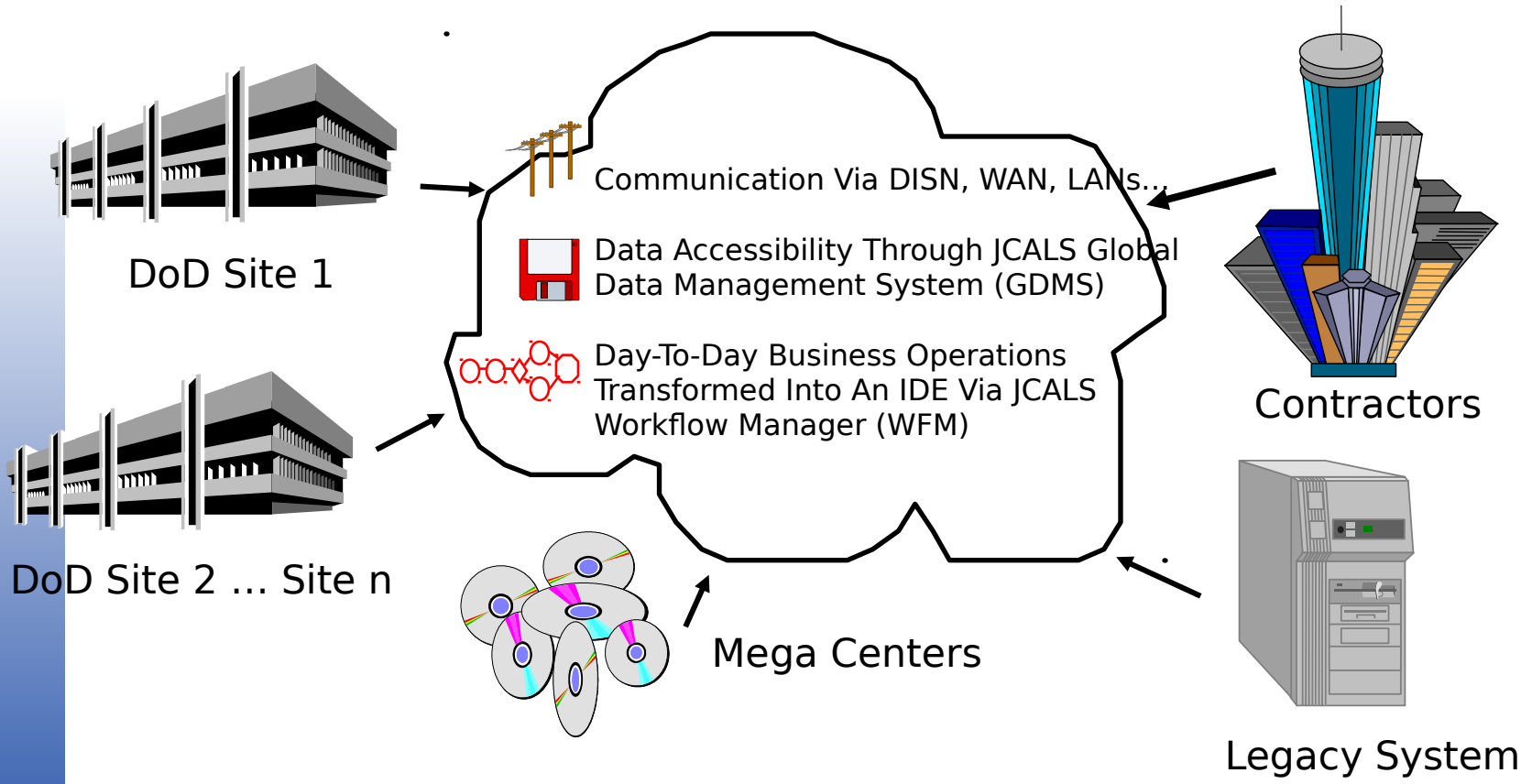
JCALS Runs On Multiple Platforms DEC/HP/NT/SUN

Requirements of An Interoperable Infrastructure

- Must Easily Interface With Legacy Systems
- Allows For Protection Of Data
- Supports Multiple Platform Environments
- Scaleable From Small To Very Large Enterprises
- Provides Seamless Authorized Access To Data Throughout The Enterprise
- Provides Common Desktop Environment (Single User Workstation)
- Allows For DoD And Commercial Communications
- Supports Concurrent, Collaborative Business Processes

JCALS Satisfies These Requirements

JCALS Provides for an IDE


DoD Site 1
DoD Site 2 ... Site n
Communication Via DISN, WAN, LANs...
Data Accessibility Through JCALS Global Data Management System (GDMS)
Day-To-Day Business Operations Transformed Into An IDE Via JCALS Workflow Manager (WFM)
Contractors
Mega Centers
Legacy Systems

Across The Enterprise

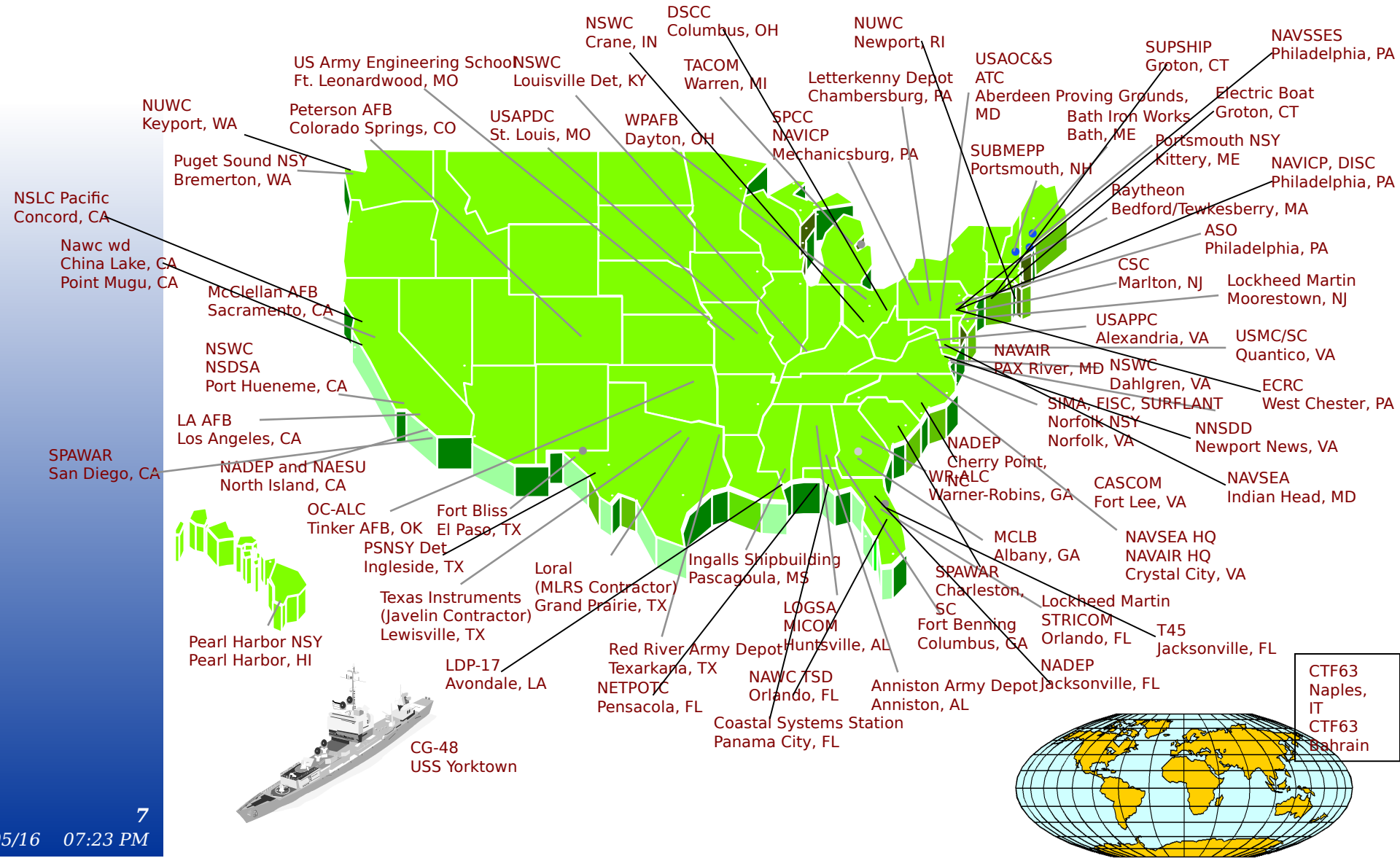
- JCALS GDMS provides transparent data access
- WFM allows cohesive, interoperable digital environment

JCALS Today

- **Interfaces With Approximately 40 Legacy Systems**
- **Deployed To 16,000 Users Across 65 Sites**
- **Shared Data Across The Enterprise**
- **Protects Data To C-2 (Sensitive But Unclassified)**
- **Runs On DEC/HP/SUN/NT Server**
- **Access All Applications Through Single Desktop**
- **Uses Both DISN And Commercial Communications**
- **Through Workflow Manager, Supports Collaborative Processes Among Diverse Organizations**

JCALS Meets The Requirements For An IDE Today

JCALS IDE Distribution


NSWC Crane, IN
DSCC Columbus, OH
NUWC Newport, RI
US Army Engineering School Ft. Leonardwood, MO
NSWC Louisville Det, KY
TACOM Warren, MI
Letterkenny Depot Chambersburg, PA
USAOC&S ATC Aberdeen Proving Grounds, MD
SUPSHIP Groton, CT
NAVSSES Philadelphia, PA
NUWC Keyport, WA
Peterson AFB Colorado Springs, CO
USAPDC St. Louis, MO
WPAFB Dayton, OH
SPCC NAVICP Mechanicsburg, PA
Bath Iron Works Bath, ME
Electric Boat Groton, CT
Puget Sound NSY Bremerton, WA
SUBMEPP Portsmouth, NH
Portsmouth NSY Kittery, ME
NAVICP, DISC Philadelphia, PA
NSLC Pacific Concord, CA
Raytheon Bedford/Tewksberry, MA
Nawc wd China Lake, CA Point Mugu, CA
ASO Philadelphia, PA
CSC Marlton, NJ
Lockheed Martin Moorestown, NJ
McClellan AFB Sacramento, CA
USAPPC Alexandria, VA
USMC/SC Quantico, VA
NAVAIR PAX River, MD
NSWC Dahlgren, VA
NSWC NSDSA Port Hueneme, CA
ECRC West Chester, PA
SIMA, FISC, SURFLANT Norfolk NSY Norfolk, VA
LA AFB Los Angeles, CA
NNSDD Newport News, VA
NADEP Cherry Point, NC
SPAWAR San Diego, CA
NADEP and NAESU North Island, CA
WR-ALC Warner-Robins, GA
CASCOM Fort Lee, VA
NAVSEA Indian Head, MD
OC-ALC Tinker AFB, OK
Fort Bliss El Paso, TX
PSNSY Det Ingleside, TX
MCLB Albany, GA
NAVSEA HQ NAVAIR HQ Crystal City, VA
Ingalls Shipbuilding Pascagoula, MS
Loral (MLRS Contractor) Grand Prairie, TX
SPAWAR Charleston, SC
Texas Instruments (Javelin Contractor) Lewisville, TX
Lockheed Martin STRICOM Orlando, FL
LOGSA MICOM Huntsville, AL
Fort Benning Columbus, GA
T45 Jacksonville, FL
Pearl Harbor NSY Pearl Harbor, HI
Red River Army Depot Texarkana, TX
NADEP Jacksonville, FL
LDP-17 Avondale, LA
NAWC TSD Orlando, FL
NETPOTC Pensacola, FL
Anniston Army Depot Anniston, AL
Coastal Systems Station Panama City, FL
CG-48 USS Yorktown
CTF63 Naples, IT
CTF63 Bahrain

JCALS Program Funding Profile

	Sunk	FY99	FY00	FY01	FY02	FY03	FY04	FY05
Tech Manuals								
Oper & Maint		**97.465**	**103.849**	**108.443**	**111.094**	**111.071**	**114.234**	**117.523**
Procurement		**27.037**	**33.011**	**40.606**	**41.413**	**42.333**	**43.180**	**44.112**
Total	517.805	124.502	136.860	149.049	152.507	153.404	157.414	161.635
DII Projects								
Oper & Maint		**19.624**	**22.161**	**14.753**	**15.096**	**15.433**	**15.433**	**15.433**
Procurement		**--**	**--**	**--**	**--**	**--**	**--**	**--**
Total	38.428	19.624	22.161	14.753	15.096	15.433	15.433	15.433
Total Program								
Oper & Maint		**117.089**	**126.010**	**123.196**	**126.190**	**126.504**	**129.667**	**132.956**
Procurement		**27.037**	**33.011**	**40.606**	**41.413**	**42.333**	**43.180**	**44.112**
Total	556.233	144.126	159.021	163.802	167.603	168.837	172.847	177.068
Unfunded								
Oper & Maint		--	--	**18.069**	**1.326**	**1.856**	--	**35.637**
Procurement		**17.000**	--	**.884**	--	--	**.601**	**34.024**
Total		17.000	--	18.913	1.326	1.856	.601	69.661
JTM Users (28,836)	11795	2487	3477	4916	2352	2561	380	1938
Sites Procured (342)	51	21	31	45	76	58	41	19

Navy JCALS Strategy

- ✓ **Focus on deployment and support of INFRASTRUCTURE capabilities**
  - Emphasize enhancements to PC Client, GDMS and WFM
  - Update security solution
  - Accelerate Web capability
- ✓ **Support JTM at minimum level to support PM for MSIII Decision**
  - Achieve effective SWP3 capability and interfaces for Navy TM requirements in FY99
- ✓ **Assess against equivalent commercial solutions; advocate planned shift to commercial solutions when available and affordable**
  - Targets include Transaction Processing, Workflow,

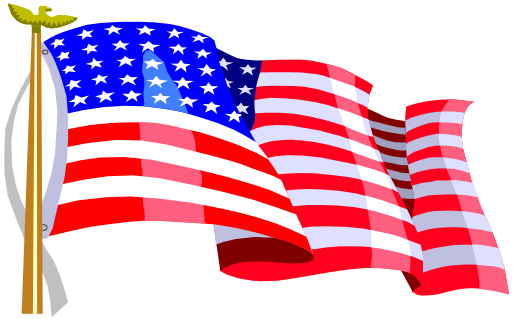
JCALS

- Strengths/Values
  - GDD
    - ➔ fragmentation; unique to GDD
    - ➔ data driven; business rules determined by data, not programming
    - ➔ search engine searches on conceptual and logical model and can write/update
    - ➔ has an API
    - ➔ includes both RBAC and OBAC
- WFM
  - ➔ supports enterprise over multiple servers
  - ➔ includes both RBAC and OBAC
  - ➔ linked with GDMS
- Security
  - ➔ comprehensive (local, global, user, network), certified and accredited
- Support Center (SOSC)

Summary

- **Significant investment in infrastructure**
  - Large presence and potential for building partnerships
  - Can highly leverage our investments
  - Possible integration platform for migrating legacy environment, around business process, to SUP21---need to assess against defined performance requirements and make business decision
- **Services committed and program viable and well-funded through FYDP**
- **JCALS continues to evolve to greater reliance on current, stable COTS tools for standards-based workflow and global data management**

Bottom Line . . . Need to exploit capabilities (get share of the pie) of this joint Service tool



WEB SITES TO VISIT

PM JCALS =

http://150.149.1.11

NAVY SIM =
http://www.navy.jcals.com

CSC =
http://199.210.1